

PIR Motion Sensor LED Dimmer, 12–48VDC Input, 8A / 384W Max Output

OVERVIEW

The E-1CH-SEN-PIR-48V is a single-channel sensor LED dimmer designed to interface with a variety of low-voltage induction sensor heads and drive constant-voltage LED strip lighting directly. Compatible sensor types include PIR motion, touch, door, hand sweep, and microwave motion detectors, making it suitable for cabinet lighting, display cases, and other low-voltage accent or task lighting applications in commercial and residential installations.

The controller accepts 12–48VDC input and delivers up to 8A output current, with maximum output power of 384W at 48V (96W/192W/288W/384W at 12V/24V/36V/48V respectively). The unit is rated IP20 for indoor dry-location use, operates across an ambient temperature range of -30°C to +55°C, and carries a maximum case temperature rating of +85°C. Dimensions are 114mm x 38mm x 26mm with a gross weight of 0.052 kg.

The E-1CH-SEN-PIR-48V is CE certified and complies with LVD and EMC standards including EN IEC 55015:2019+A11:2020, EN 61547:2009, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019, EN 61347-1:2015+A1:2021, and EN 61347-2-13:2014+A1:2017. A 5-year warranty is provided.

SPECIFICATIONS

Power	384 W	Dimensions	114 x 38 x 26 mm
IP rating	IP20	Operating temp	-30 to +55 °C
Input voltage	12-48V DC V DC	Warranty	5 years
Weight	0.052 kg		